K. Davis



1600

ENTERED #18

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/435,274B

DATE: 03/19/2002 TIME: 14:10:29

3-25-02

KFD

Input Set : A:\00100301.app

Output Set: N:\CRF3\03192002\1435274B.raw

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         Rhee, Yoon
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 8 <130> FILE REFERENCE: 001.00301
10 <140> CURRENT APPLICATION NUMBER: US 09/435,274B
11 <141> CURRENT FILING DATE: 1999-11-05
13 <150> PRIOR APPLICATION NUMBER: US 60/107,417
14 <151> PRIOR FILING DATE: 1998-11-06
16 <160> NUMBER OF SEQ ID NOS: 17
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34 acgcggctga agaacatctg aaggcgctgg cacgcaaagg cgttattgaa attgtttccg 180
35 gegeateaeg egggattegt etgttgeagg aagaggaaga agggttgeeg etggtaggte 240
36 gtgtggctgc cggtgaacca cttctggcgc aacagcatat tgaaggtcat tatcaggtcg 300
37 atcetteett atteaageeg aatgetgatt teetgetgeg egteageggg atgtegatga 360
38 aagatatogg cattatggat ggtgacttgc tggcagtgca taaaactcag gatgtacgta 420
39 acqqtcaqqt cqttqtcqca cqtattqatq acqaaqttac cqttaaqqgc ctggaaaaac 480
40 agggcaataa agtcgaactg ttgccagaaa atagcgagtt taaaccaatt gtcgttgacc 540
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                                        10
60 Asp His Ile Ser Gln Thr Gly Met Pro Pro Thr Arg Ala Glu Ile Ala
61
                20
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63 Gln Arg Leu Gly Phe Arg Ser Pro Asn Ala Ala Glu Glu His Leu Lys
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    66 Ala Leu Ala Arq Lys Gly Val Ile Glu Ile Val Ser Gly Ala Ser Arg
    69 Gly Ile Arg Leu Leu Gln Glu Glu Glu Gly Leu Pro Leu Val Gly
    72 Arg Val Ala Ala Gly Glu Pro Leu Leu Ala Gln Gln His Ile Glu Gly
                                           90
                        85
    75 His Tyr Gln Val Asp Pro Ser Leu Phe Lys Pro Asn Ala Asp Phe Leu
                                      105
    78 Leu Arg Val Ser Gly Met Ser Met Lys Asp Ile Gly Ile Met Asp Gly
               115
                                  120
    81 Asp Leu Leu Ala Val His Lys Thr Gln Asp Val Arg Asn Gly Gln Val
           130
                              135
                                                  140
    84 Val Val Ala Arg Ile Asp Asp Glu Val Thr Val Lys Gly Leu Glu Lys
                           150
                                              155
    87 Gln Gly Asn Lys Val Glu Leu Leu Pro Glu Asn Ser Glu Phe Lys Pro
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                                          170
    90 Ile Val Val Asp Leu Arg Gln Gln Ser Phe Thr Ile Glu Gly Leu Ala
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              Thr Lys Lys Ala Gly Gln Ala Lys
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DATE: 03/19/2002

TIME: 14:10:29 PATENT APPLICATION: US/09/435,274B Input Set : A:\00100301.app Output Set: N:\CRF3\03192002\I435274B.raw 135 <213> ORGANISM: Human immunodeficiency virus type 1 137 <220> FEATURE: 138 <223> OTHER INFORMATION: Rev protein NES 140 <400> SEQUENCE: 5 141 Leu Pro Pro Leu Glu Arg Leu Thr Leu 145 <210> SEQ ID NO: 6 146 <211> LENGTH: 9 147 <212> TYPE: PRT 148 <213> ORGANISM: Artificial Sequence 150 <220> FEATURE: 151 <223> OTHER INFORMATION: Description of Artificial Sequence:nuclear export 152 signal 154 <220> FEATURE: 155 <223> OTHER INFORMATION: mutated NES of pNEAM10 . 157 <400> SEQUENCE: 6 158 Leu Pro Pro Asp Leu Arg Leu Thr Leu 159 162 <210> SEQ ID NO: 7 163 <211> LENGTH: 4 164 <212> TYPE: PRT 165 <213> ORGANISM: Artificial Sequence 167 <220> FEATURE: 168 <223> OTHER INFORMATION: Description of Artificial Sequence:nuclear export signal 171 <220> FEATURE: 172 <223> OTHER INFORMATION: residual NES of pNEARev(delta)3 174 <400> SEQUENCE: 7 175 Leu Pro Pro Leu 176 1 179 <210> SEQ ID NO: 8 180 <211> LENGTH: 26 181 <212> TYPE: DNA 182 <213> ORGANISM: Artificial Sequence 184 <220> FEATURE: 185 <223> OTHER INFORMATION: Description of Artificial Sequence:primer sequence 187 <220> FEATURE: 188 <223> OTHER INFORMATION: GAL4 primer 190 <400> SEQUENCE: 8 191 qqqaattcaa ttttaatcaa agtqgg 26 194 <210> SEQ ID NO: 9 195 <211> LENGTH: 27 196 <212> TYPE: DNA 197 <213> ORGANISM: Artificial Sequence 199 <220> FEATURE: 200 <223> OTHER INFORMATION: Description of Artificial Sequence:primer sequence 202 <220> FEATURE: 203 <223> OTHER INFORMATION: GAL4 primer 205 <400> SEQUENCE: 9

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 03/19/2002 PATENT APPLICATION: US/09/435,274B TIME: 14:10:29

Input Set : A:\00100301.app

Output Set: N:\CRF3\03192002\I435274B.raw

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RAW SEQUENCE LISTING DATE: 03/19/2002 PATENT APPLICATION: US/09/435,274B TIME: 14:10:29

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Output Set: N:\CRF3\03192002\I435274B.raw

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VERIFICATION SUMMARY

DATE: 03/19/2002 -

PATENT APPLICATION: US/09/435,274B

TIME: 14:10:30

Input Set : A:\00100301.app

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